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Driving the ScienceBox package into the future

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In this talk we describe the 2022 reboot of the **ScienceBox project**, the demonstrator package for some of CERN's storage and analysis services. We evolved the original implementation to make use of **Helm charts** across the entire dependency stack.

We've also incorporated the major architectural update to **CERNBox, replacing the previous PHP backend with a catalog of distributed microservices based on Reva**. Besides enhancing our existing use cases, the new CERNBox implementation enables and streamlines interoperability with additional applications and sites deployed under the CS3 APIs or compatible with them.

We present this update as a **self-contained and easy-to-use package with minimal dependencies** and with the same goals as the original ScienceBox: Provide a sandbox to evaluate the storage, sharing, and analysis services we run at CERN on external premises to non-CERN users. We believe there is not only a great value in releasing and contributing back to the open source projects that sustain these services, but also in **describing the configuration and artifacts that make operating such complex software systems at scale possible**.

Primary authors: BOCCHI, Enrico (CERN); DESAI, Jimil (Ahmedabad University (IN)); ALFAGEME SAINZ, Samuel (CERN)

Presenter: ALFAGEME SAINZ, Samuel (CERN)

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